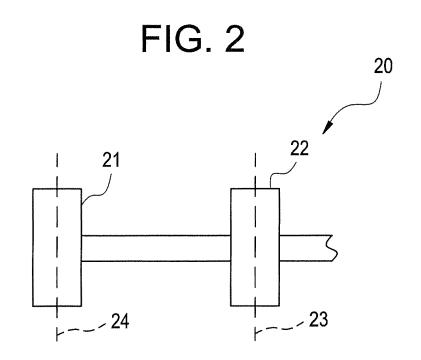
^{1/8} FIG. 1 10 _12 19 122 34 1,24 35 1 120 -32 126 28 <u>2</u>5 20 26 30 15 16 127 14 Computer P₁ 38 P₂ **ROM** P₃ 36 1/0 -17 CPU P₄ 18 40 RAM 42



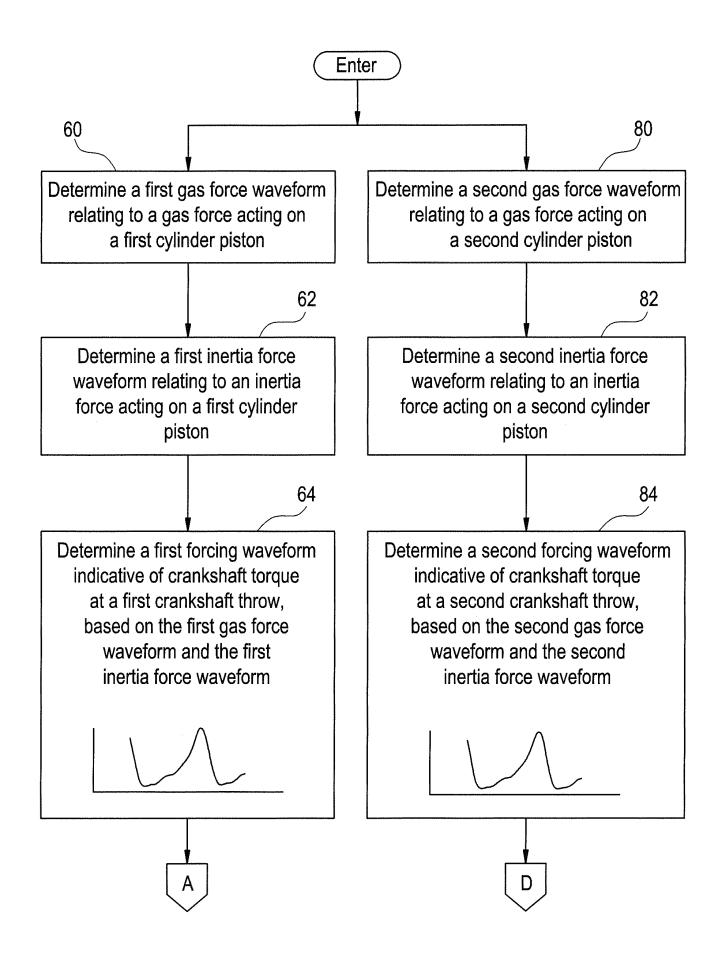
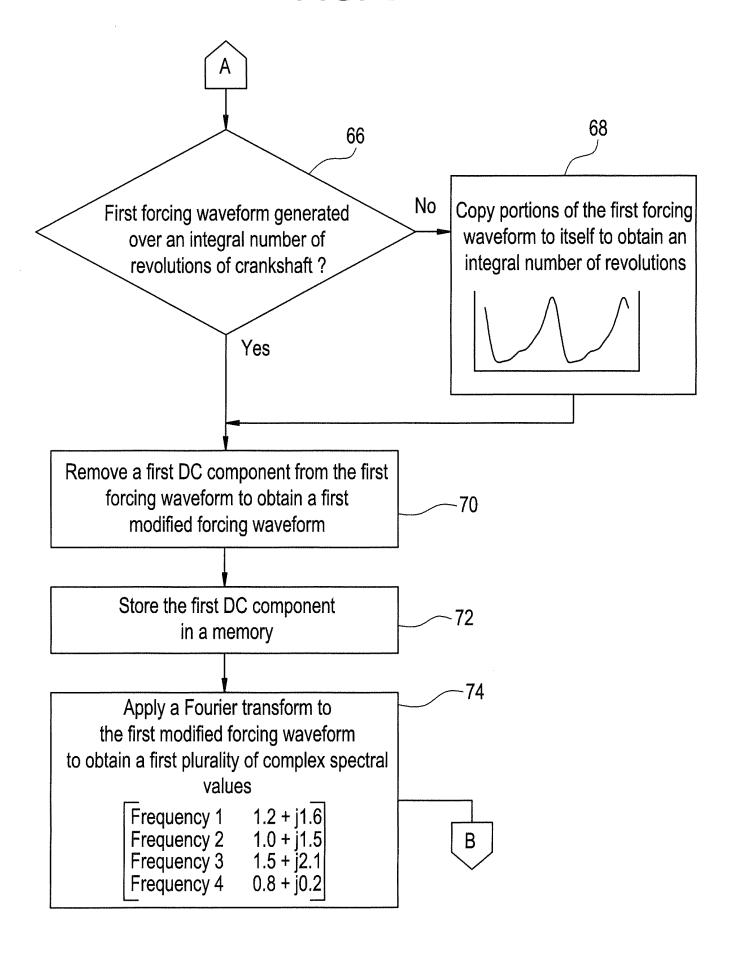
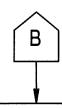


FIG. 4





Calculate a first plurality of spectral amplitude values based on the first plurality of complex spectral values

Frequency 1	2.0
Frequency 2	1.8
Frequency 3	2.6
Frequency 4	0.8

Determine a first maximum spectral amplitude from the first plurality of spectral amplitude values

[Frequency 3 2.6]

Determine an overall maximum spectral amplitude by calculating the greater of the first maximum spectral amplitude and the second maximum spectral amplitude

Determine a threshold amplitude value based on the overall maximum spectral amplitude and an acceptance value: threshold amplitude value = overall maximum spectral amplitude * acceptance value

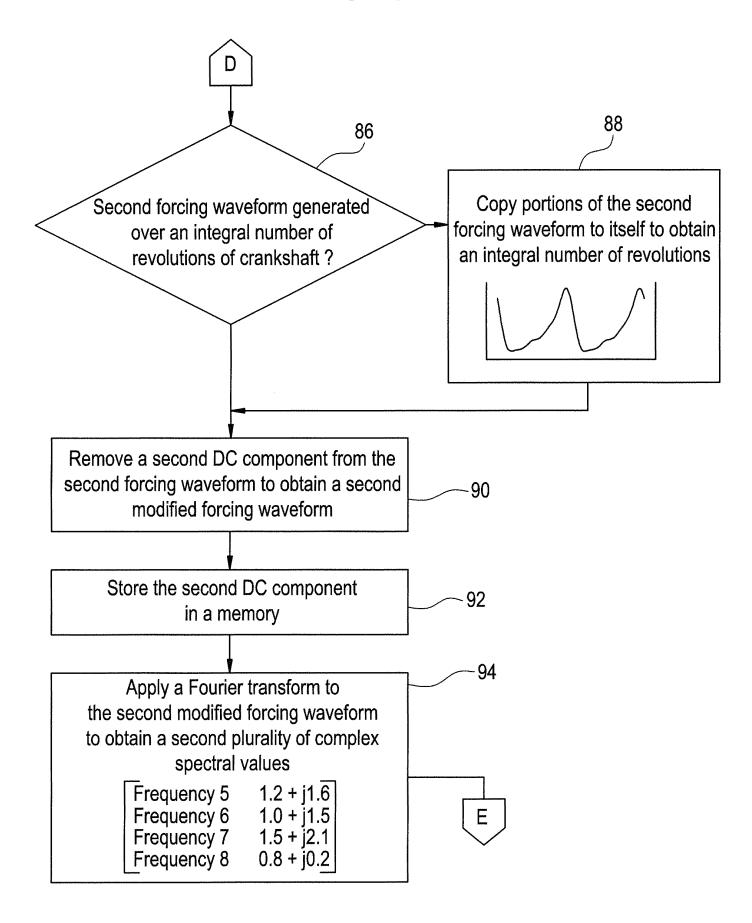
102

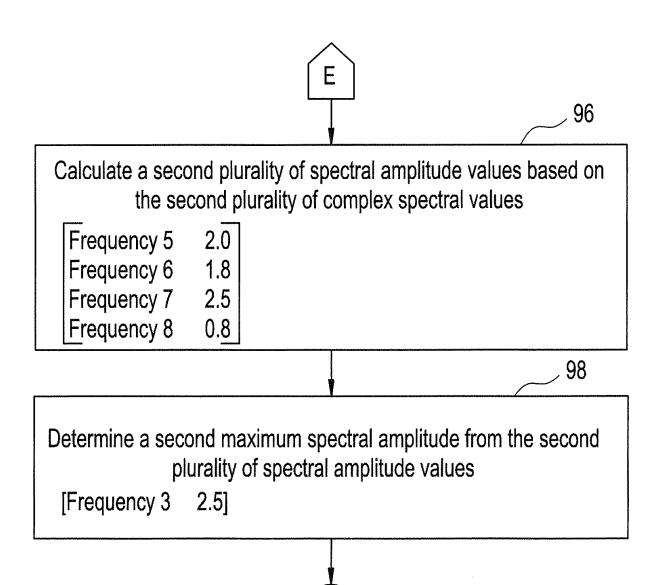
100

78



FIG. 6







Determine a first plurality of desired frequency values by selecting frequency values associated with a subset of the first plurality of spectral amplitude values that are greater than or equal to the threshold amplitude value

104

Frequency 1 Frequency 2

Frequency 3

106

Determine a second plurality of desired frequency values by selecting frequency values associated with a subset of the second plurality of spectral amplitude values that are greater than or equal to the threshold amplitude value

Frequency $\bar{5}$

Frequency 6

Frequency 7

108

Solve a dynamic model using: (i) a subset of the first plurality of complex spectral values associated with the first plurality of desired frequency values, and (ii) a subset of the second plurality of complex spectral values associated with the second plurality of desired frequency values, and (iii) the first and second DC components

Frequency 1 1.2+j1.6

Frequency 2 1.0+j1.5

Frequency 3 1.5+j2.1

Frequency 4 1.2+j1.6

Frequency 5 1.0+j1.5

Frequency 6 1.5+j2.1

First and second DC components

End

FIG. 9

